

INSTALLATION MANUAL

NISSAN FRONTIER PRINSU RACK



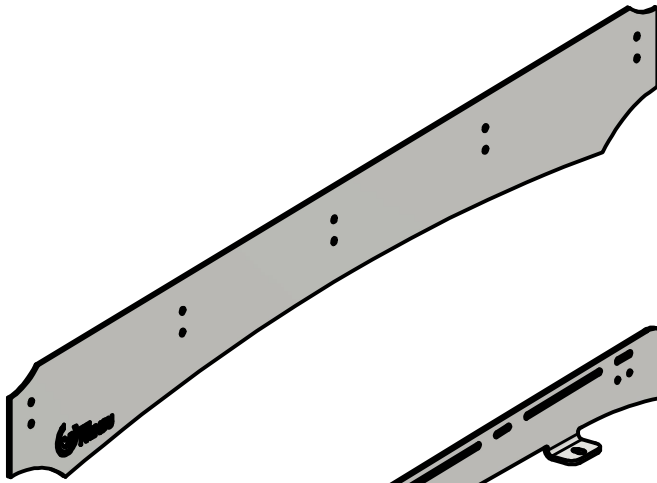
Designed and Manufactured by:
Prinsu Design Studio
3180 N. Wright Road, Idaho Falls ID 83401

INSTALLATION INSTRUCTIONS

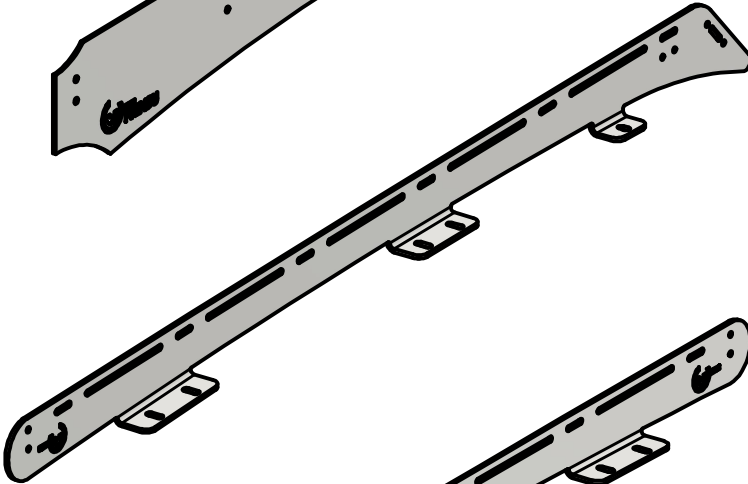
MAKE:	MODEL:	GEN:	TRIM:	CONFIGURATION:
NISSAN	FRONTIER	3RD	ALL	CREW CAB

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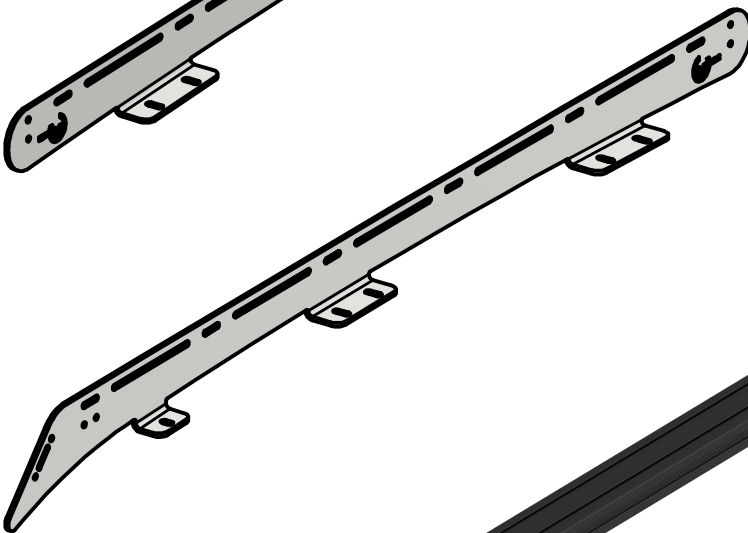
PARTS:
(INCLUDED)



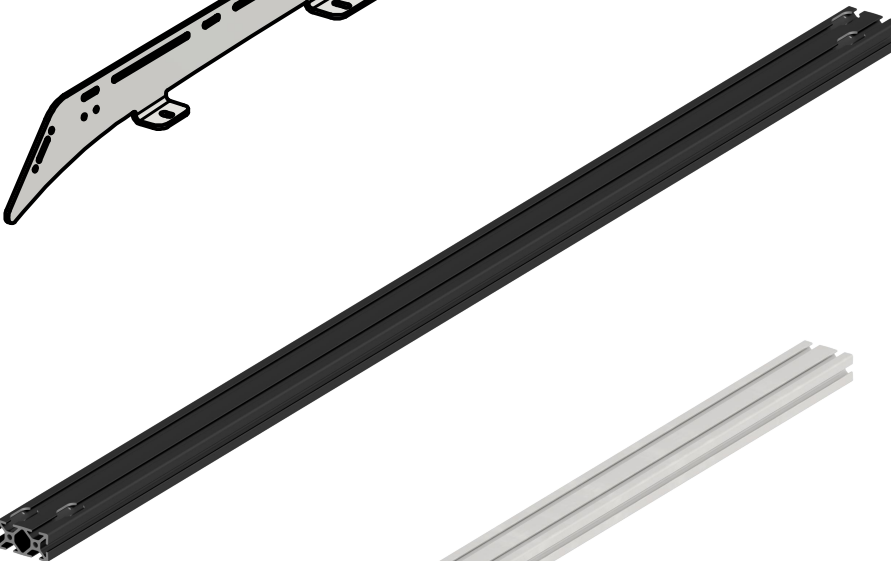
WIND-DEFLECTOR PANEL
(QTY. 1)



**SIDE RAIL
DRIVER SIDE**
(QTY. 1)



**SIDE RAIL
PASSENGER SIDE**
(QTY. 1)



47" STANDARD CROSSBAR
(QTY. 7)



47" SILVER CROSSBAR
(QTY. 1)

HARDWARE

VEHICLE MOUNTING HARDWARE:



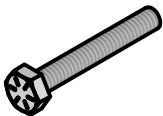
(A) 1/4"-20 PLUS-NUT
QTY: 10



(B) 0.319"ID-3/4"OD x 3/4" Aluminum Spacer
QTY: 2



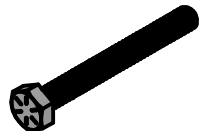
(C) 0.319"ID-3/4"OD x 5/8" Aluminum Spacer
QTY: 8



(D) 1/4"-20 x 1-3/4" HEX BOLT
QTY: 10



(E) 1/4" x .734" FLAT WASHER
QTY: 10



(F) 1/4"-20 X 2-1/4" HEX BOLT
QTY: 1



(G) 1/4" X .625" WASHER
QTY: 2



(H) 5/16"-18 X 1-1/8" COUPLING NUT
QTY: 1

RACK ASSEMBLY HARDWARE:



(I) 1/4"-20 X 1" T-30 TORX MACHINE SCREW
QTY: 32



(J) 1/4" BLACK FLAT WASHER
QTY: 42



(K) 1/4"-20 T-NUT
QTY: 10



(L) 1/4"-20 X 1/2" BLACK PHILLIPS DRIVE SCREW
QTY: 10

SUGGESTED TOOLS:

- TORX-30 SOCKET DRIVER
 - PHILLIPS HEAD DRIVER
 - 1/2" WRENCH OR SOCKET
 - 7/16" WRENCH OR SOCKET
 - RAZOR BLADE
 - DRILL BIT SET PROGRESSING UP TO AT LEAST 3/8"
- (POWER TOOLS REQUIRED)

NOTES: Suggested tools are not comprehensive, and may require case-by case or discretionary substitutions. Where power tools are used: use care not to over-tighten fasteners.

-ALWAYS wear safety glasses-

Quantities are shown as product design requires. In some cases, additional quantities are sent to act as a buffer for lost or damaged hardware during installation.

Hardware/Fastener finish, style, and exact color may vary due to many variables, such as current availability and varying manufacturer sourcing.

INSTALLATION STAGES

STAGE A - PREPARATION AND ASSEMBLY



STAGE B - PRINSU INSTALLATION



STAGE C - FINISHING UP



STAGE A - PREPARATION AND ASSEMBLY



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STAGE A - PREPARATION AND ASSEMBLY

1. Gather all parts, tools, and fasteners and stage them how they will be assembled. (as shown)



NOTE: Staging, inspection, and initial rack assembly should not be attempted on the roof of the vehicle.

See also: [Instruction Video: <https://www.youtube.com/watch?v=G4DP5VZwTX0>]

2. Using included documentation, evaluate and ensure proper quantities for all hardware, fasteners, and components.
3. With all staging and inspection completed, start initial assembly of your Prinsu Rack. Begin with the side-rails and standard (non-silver) cross-bars.

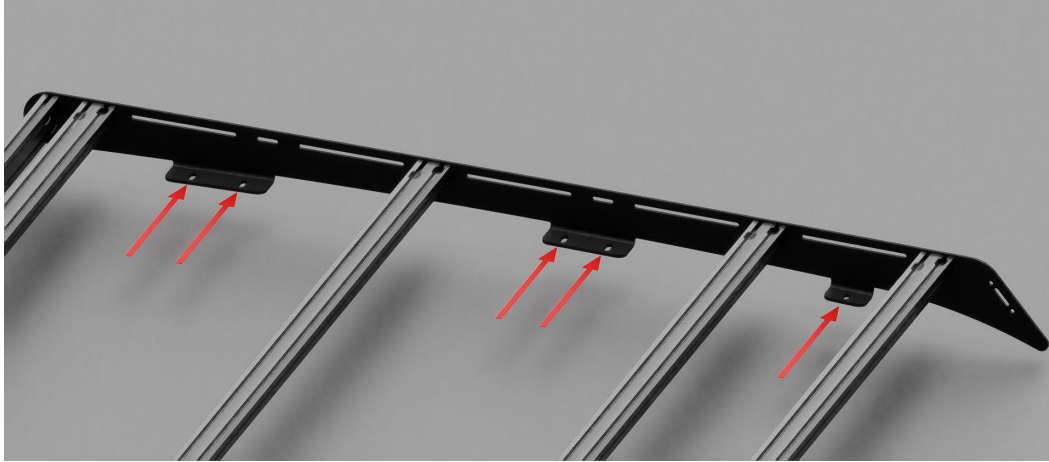
NOTE: During initial assembly, avoid using tools that will over-tighten, or unintentionally cross-thread the fasteners, such as high powered impact tools or drills. Hand tools, or power tools with very low torque setting capabilities are advised. Roof rack fasteners require approximately 4 ft/lbs to fully tighten. Over tightening may result in fastener failure.



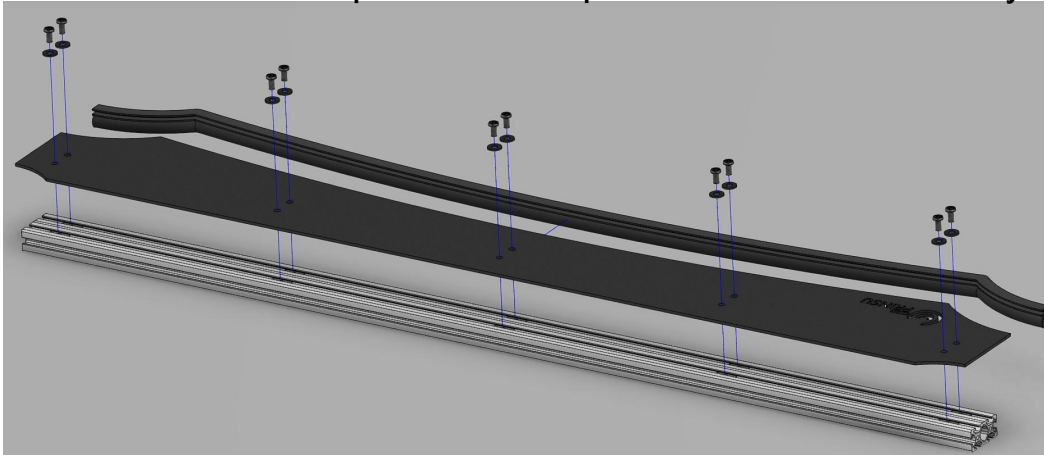
NOTE: A small amount of thread-locker should be applied to all side-rail fasteners during assembly.

STAGE A - PREPARATION AND ASSEMBLY

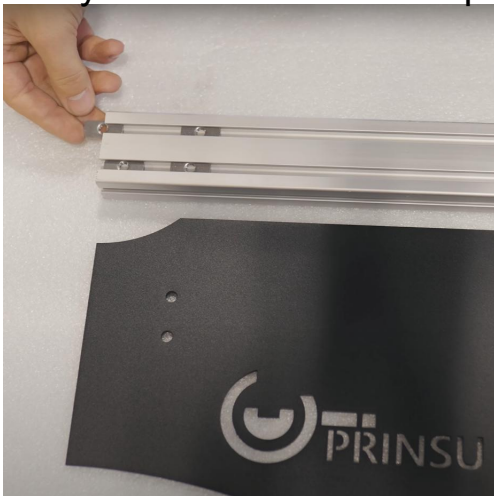
4. During assembly, note the location of the mounting points on the rack. These are typically located on the side-rails. (as indicated)
EXCLUDE installation of crossbars in associated mounting locations.
(These cross-bars will be installed during final stages.)



5. Assemble wind deflector components independent of the rack body.



6. Count and slide T-nuts into silver crossbar; matching each respective hole location on wind-deflector panel. T-nut should be oriented with hole flange pointing down, away from wind-deflector panel.



STAGE B - PRINSU INSTALLATION



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STAGE B - PRINSU INSTALLATION

1. On the roof of the vehicle, begin by measuring, and marking 7 inches from the edge of the black trim in the rear.
-Repeat on both sides of vehicle.-



Pro-tip: To establish proper cutting amount. Once the 7" mark is placed, an included aluminum spacer can be used to trace a circle around the initial 7 inch mark.

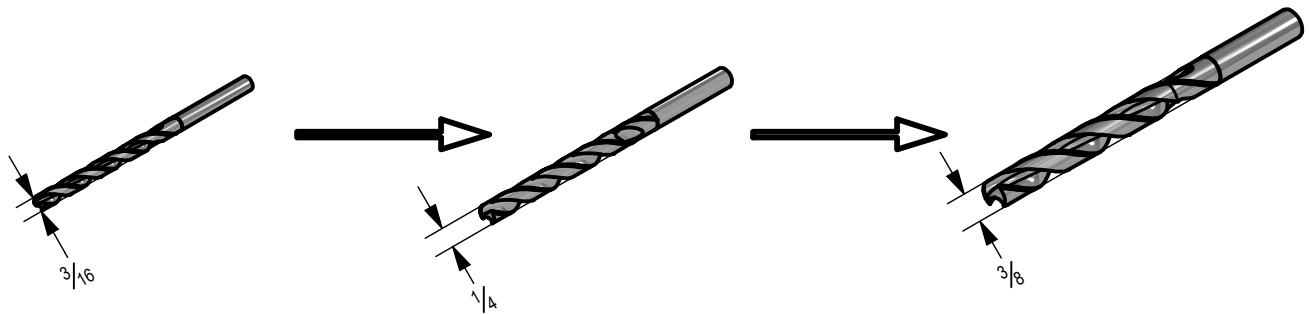


2. Cut away and remove the foam/rubber material covering the "gutter" of the vehicle roof where the circle has been marked and traced.



STAGE B - PRINSU INSTALLATION

3. Drill a 3/8" hole centered on the 7" marked point. This may require "stepping up" from a smaller bit size incrementally until a 3/8" hole is achieved. (as shown)

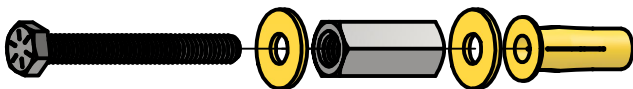


NOTE: Drilling into the roof of the vehicle must be done carefully to avoid disturbing or damaging internal components, such as airbags and wiring. Avoid drilling deeper than necessary.

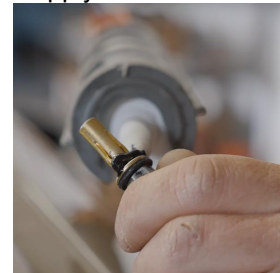
Always Wear eye protection while drilling.

4. Install plus-nut into drilled hole, as follows:

a. Create plus-nut compression assembly, firmly hand tighten.



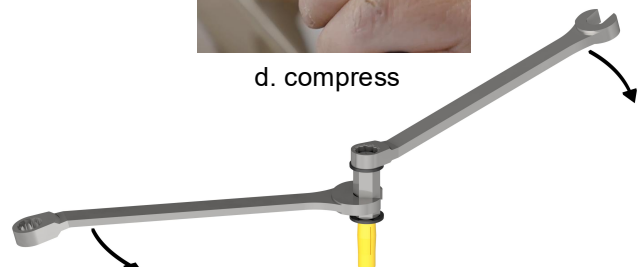
b. Apply silicone sealant



c. Insert plus nut assembly into drilled hole



d. compress



NOTE: Do NOT over-tighten plus-nut. Overtightening will reduce clamping force and cause fastener to fail. Exact torque specifications vary. (See also: Plus-Nut Installation Video)

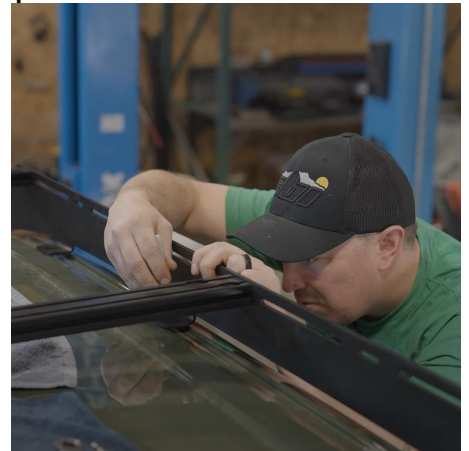
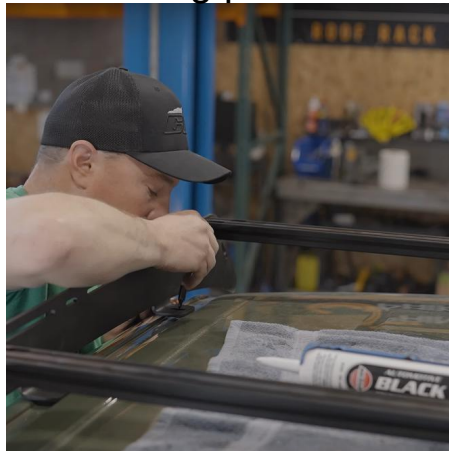
VEHICLE INSTALLATION

NOTE: Before proceeding, ensure rear plus-nut has been fully installed on both sides of vehicle.

5. Gently rest previously assembled roof rack (See Stage A) onto roof of vehicle, align rear mounting foot with installed plus nut, and thread mounting bolt into place.



6. With alignment established, trace and mark all other mounting points on the vehicle using remaining Prinsu mounting points as a template.



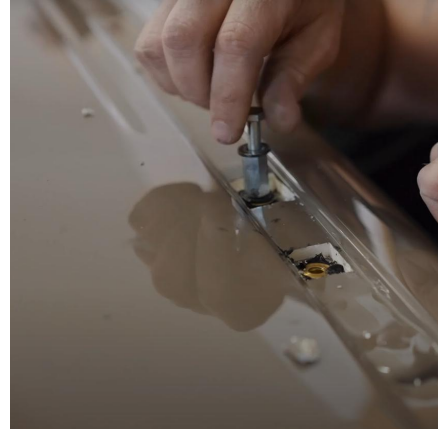
7. Unscrew and remove rack from vehicle; install the wind deflector assembly onto the roof rack.



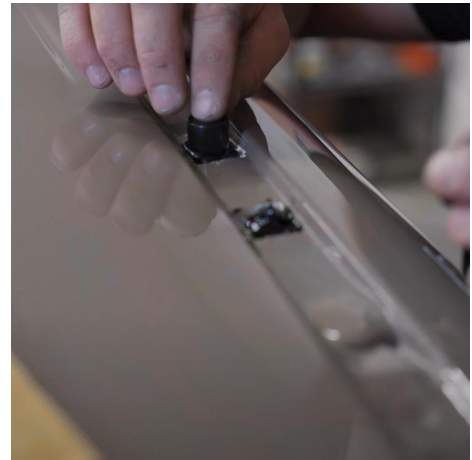
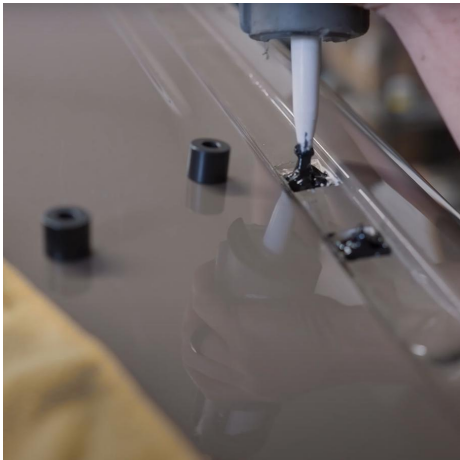
NOTE: Do NOT attempt wind deflector installation while rack is still resting on the vehicle.

VEHICLE INSTALLATION

8. Using traced marks, (see step B6) repeat cutting, drilling, and full plus-nut installation on all mounting locations on the roof of the vehicle.
(See Step B4)



9. Use silicone to fill the voids in and around each plus-nut. Place an aluminum spacer on top of each plus-nut, through applied silicone. (This may become messy, and may require gloves)



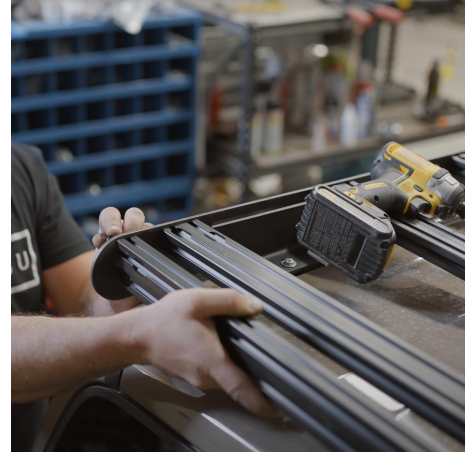
10. Once again, gently place the roof rack onto the vehicle. Delicately align mounting points with each previously placed spacer. Take care not to misalign, or knock over placed spacers.



NOTE: This step will most likely require at least two people.

VEHICLE INSTALLATION

12. Install remaining Crossbars, note vertical orientation of rear crossbar.



11. Place each mounting bolt through mounting points and spacers; thread into installed plus-nuts. This may require periodic and small adjustments to spacer and rack placement to insure proper alignment. Before tightening mounting bolts, double check rack and proper overall alignment on vehicle. Tighten mounting bolts.



END OF STAGE B

FINISHING UP



1. Fully inspect your installed Prinsu Rack for proper alignment, bolt tension, and rigidity. Also inspect for any damage to the vehicle or Prinsu Rack.

PRO TIP: Performing a few quick hand knocks, and listening to the sound, will help identify potential loose or unfastened areas of the rack. Any buzzing or rattling indicates loose components. A properly installed roof rack resonates clearly with no buzzing or rattling.

2. Read curing instructions for specific silicone sealant used. Allow proper curing time prior to exposing the vehicle to rain, dust or strong winds. This is usually between 12-24 hours after initial application.



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